

# MSU - BOTTINEAU

## 2007-09 INFORMATION TECHNOLOGY PLAN



June 8, 2006

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## **1. Agency Contact Information**

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## **2. Information Technology Overview**

Since 1996, MSU-Bottineau has been reorganizing itself to focus on information technology (IT). It has remodeled existing vocational curriculum to bring information age technology into all programs. To reach outlying audiences its faculty has embraced a variety of distance education media, like interactive video and internet-delivered instruction. MSU-Bottineau is a Regional Cisco Academy and an ExplorNet host site (the first community college in North Dakota to do so.) Those students completing ExplorNet classes have the opportunity to earn A+ certification as well.

MSU-Bottineau believes that the successful integration of technology into the curriculum, classroom, program delivery and offices is necessary to improve student access to programs and services and to enhance teaching and learning. MSU-B will continue to expand the use of IVN and internet based programming to students across North Dakota and the country. We will encourage faculty and staff to avail themselves to technology related training opportunities, and we will continue to improve the technology available for classroom instruction in-order-to provide a stimulating learning environment. Teaching and learning must also be supported with up-to-date hardware and software and with fast, reliable and secure internet access.

## **3. Technology Goals and Objectives**

- a. Provide faculty, staff and students with current technology.
  - Replace computers and servers on a 3 to 4 year replacement cycle
  - Replace faculty desktop computers with laptops as warranted
  - Ensure classrooms are equipped with the technology needed to facilitate teaching and learning – face to face and distance
  - Upgrade to Microsoft Office 2007
  - Continue to centralize campus printing
  - Work with United Telephone to provide on-demand video for classes
  - Maintain interactive video (IVN) capability

- b. Provide faculty, staff and students with fast/reliable network access.
  - Complete upgrading backbone to fiber and install fiber switches in Thatcher Hall
  - Continue to move towards a total wireless environment for the campus
  - Provide wireless authentication for campus network
  - Implement security plan using guidelines set forth by CALEA when and if required
- c. Provide faculty, staff and students with the support necessary to use technology efficiently and effectively.
  - Increase opportunities for employees to participate in technology related training
  - Continue to use IT students for on-campus IT support
  - Use student summer positions to upgrade hardware, software and LAN
  - Inform campus community of technology related news by using intra-campus memo and Email
  - Assess faculty, staff and student technology equipment and service needs by using a questionnaire
  - Upgrade campus telephone services (including voice mail)

**4. Budget Information**

- d. 05-07 Biennium (attachment 1)
- e. 07-09 Request (attachment 1)
- f. 09-11 Estimate (attachment 1)

**5. IT Project(s)**

- g. Authenticated Wireless Solution (attachment 2)

## ATTACHMENT 1 BUDGET INFORMATION

Campus Name	MSU - Bottineau
Project	IT Budget
Number of IT FTE's	2.6 (see note below)
Number of vacant IT FTE's	0.0

Account Code	Account Code Desc	05-07 Biennium	07-09 Request	09-11 Estimate
510000	Salaries and Wages	102,423	107,544	112,921
516000	Benefits	38,921	40,867	42,910
611000	Professional Development	0	0	0
521000	Travel (As relates to Professional Dev.)	0	0	0
521000	Travel - Other	3,000	3,090	3,183
602000	IT Telephone	600	618	637
531000	IT Software/Supplies	17,724	18,256	18,803
581035, 581040, 581045, 591070, 621230, 621235, 623090	IT Contractual Services and Repairs	13,702	14,113	14,536
551000	IT Equipment under \$5000	75,568	77,835	80,170
693000	IT Equipment \$5000 and over	30,000	10,000	9,250
	Total	281,938	272,323	282,411

Funding Source	Funding Source Desc			
	General Funds	229,001	222,323	232,411
	Local Funds	52,937	50,000	50,000

*Note: FTEs include positions that provide classroom instruction and perform IT support functions. Salaries and wages only include that portion of the position responsible for IT support.*

## ATTACHMENT 2

### NDUS PROJECT BUSINESS CASE

**Project Name:** Authenticated Wireless Solution

**Name of Contact or Submitter:** Peggy Christianson

**Institution:** MSU-Bottineau

**Business Unit/Program Area:** IT Support Services

**Type of Project:**

- New Initiative
- Major enhancement/upgrade
- Application replacement
- ✓ Ongoing Initiative

**Date:** June 8, 2006

**Version:** 1.0

**Project Description:**

*Briefly describe the Project Objectives*

IT Support Services plans to construct a secure wireless network infrastructure (the Authenticated Wireless Network) which will ultimately cover the whole campus. The wireless network will run in parallel with the wired network and aims to satisfy the needs of users who require mobility and flexibility in terms of their working locations.

In order to limit the potential security risks that may be associated with wireless network technologies, access to the Authenticated Wireless Network must take place in a controlled and secure manner

Wireless Internet access is the core component of the transition from the traditional classroom to a technology-enhanced environment.

**Project Priority:**

*Describe the priority this project has related to other projects you are submitting*

This is the only IT project submitted for the 2007-09 biennium.

**Business Need/Problem:**

*Briefly describe the **Need** or **Problem** driving the proposed project and the identification of the Customers and anticipated Consumers of the project's product*

Students, faculty and staff require anytime, anywhere LAN/WAN access. In addition, there are areas of the campus that are not practical to have wired access. Mobile computing is vital to the Higher Ed environment. The tools needed to help expand

learning and teaching opportunities, by bringing the world into the classroom, include wireless access.

This project would resolve the issue facing the campus of network access without authentication. Authentication is needed to protect the network as well as the equipment accessing the network.

**Solution:**

*Briefly describe the product of the project that would resolve the Business Need or Problem.*

An authenticated wireless solution will include a router or controller for authentication, and wireless access points that are centrally managed over the IP.

**Consistency/Fit with Organization's Mission:**

*Describe how the project is consistent with the agency's mission and/or strategic plan. Please provide rationale if it is not.*

The campus strategic plan identifies the importance of information technology in providing the necessary tools for 21<sup>st</sup> century teaching and learning. This project is consistent with that plan.

**Anticipated Benefits:**

*List all **Anticipated Benefits** resulting directly from the project. Specify the ways there will be measurable improvement of new capabilities?*

- Authentication will provide the needed security for all network access.
- Mobile computing for students will be anywhere at anytime.
- Faculty and students will be able to bring their laptops and tablet pc's into the classrooms for file sharing through the wireless LAN.
- Sharing of files over the network provides a paperless classroom environment.
- Cost savings of wireless versus hardwiring would be measurable. There would be no cables, and additional switches to purchase, install and maintain.

**Impact of Not Implementing the Project:**

*Briefly explain the impacts of not implementing this project. If not implemented, what are the impacts on the organization? If not implemented, what are the impacts on other projects, systems, and/or business processes. What benefits will be missed by not doing this project?*

Wireless networks should provide the capability for secure access to the AP and the ability to isolate the AP and its clients from the wired network in order to preserve the overall integrity of network security. Thus, moving forward with wireless LAN/WAN access without user authentication places the network and the user's computer at risk.

**Project Budget:**

*Provide a **Budget** for the project using the format below. Include any special sources for project funding. Are there grants that will be applied for? Are federal funds available? Is a charge-back to the Customers planned? For example, the project may be funded by a specific line item in the budget.*

Campus Name	MSU - Bottineau
Project	Authenticated Wireless Solution
Number of IT FTE's	0.0
Number of vacant IT FTE's	0.0

Account Code	Account Code Desc	07-09 Request
510000	Salaries and Wages	
516000	Benefits	
611000	Professional Development	
521000	Travel (As relates to Professional Dev.)	
521000	Travel - Other	
602000	IT Telephone	
531000	IT Software/Supplies	
581035, 581040, 581045,		
591070, 621230, 621235,		
623090	IT Contractual Services and Repairs	
551000	IT Equipment under \$5000	10,000
693000	IT Equipment \$5000 and over	10,000 (see note)
	Total	<u>20,000</u>

  

Funding Source	Funding Source Desc	
	General Funds	10,000
	Local Funds	10,000

(Note: Server with security software -- local funds)

**Project Risks:**

*Identify any risks associated with implementing this project and explain how the risks will be mitigated.*

No risks identified.